

Name : _____

Geometric Series

Mixed: S1

Determine the number of terms(n) in each geometric series.

1) $a_1 = 5.6, r = 3, S_n = 165334.4$

2) $-5 + 10 - 20 + \dots; S_n = 27305$

3) $\sum_{m=1}^n \left(\frac{7}{3}\right) \cdot 4^{m-1}$

$S_n = 681577$

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5) $\frac{5}{2} + \frac{15}{4} + \frac{45}{8} + \dots$

$S_n = 325520\sqrt{7}$

7) $a_1 = -\frac{6}{7}, r = \frac{4}{5}, S_n = -\frac{12606}{4375}$

8) $0.7 - 2.1 + 6.3 - \dots; S_n = 279006.7$